EFFECT OF ADDITIONS PROTEIN FROM LIMOUSIN SEMINAL PLASMA IN FREEZING PROCESS TO BOER SPERMATOZOA MOTILITY AND VIABILITY AFTER EQUILIBRATION USING DIFFERENT EXTENDER

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ABSTRACT

This research was aimed to determine the effect of additions crude protein from Limousin seminal plasma in freezing process to Boer spermatozoa motility anf viability after equilibration using different extender. This study wanted to know the effect from additions protein from Limousin seminal plasma to Boer spermatozoa motility and viability. This study consist of four treatments: as first control (i) goat semen + skim egg yolk extender; as second control (ii) goat semen + tris egg yolk extender; (iii) goat semen + bull crude protein + skim egg yolk extender; (iv) goat semen + bull crude protein + tris egg yolk extender. Limousin bull fresh semen used in this study had motility percentage under 50% which considered bad semen quality. Crude protein dosage was 2,5 mg/ml extender used. All treatments kept in refrigerator with 5^{o}C temperature for one hour and then observed. The highest motility and viability were from treatment (iv) when goat spermatozoa got additional crude protein in tris egg yolk extender and the lowest motility and viability were from treatment (ii) which there was no additional crude protein and skim egg yolk extender used. In conclusion, tris egg yolk extender result better viability and motility in goat spermatozoa than skim egg yolk extender. Additional crude protein with tris egg yolk extender result big impact to both Boer goat spermatozoa viability and motility.

Key words: Boer spermatozoa, equilibration, Limousin bull crude protein, motility, viability